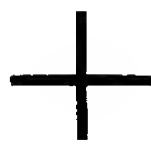


Figure 1



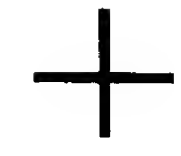


Figure 2

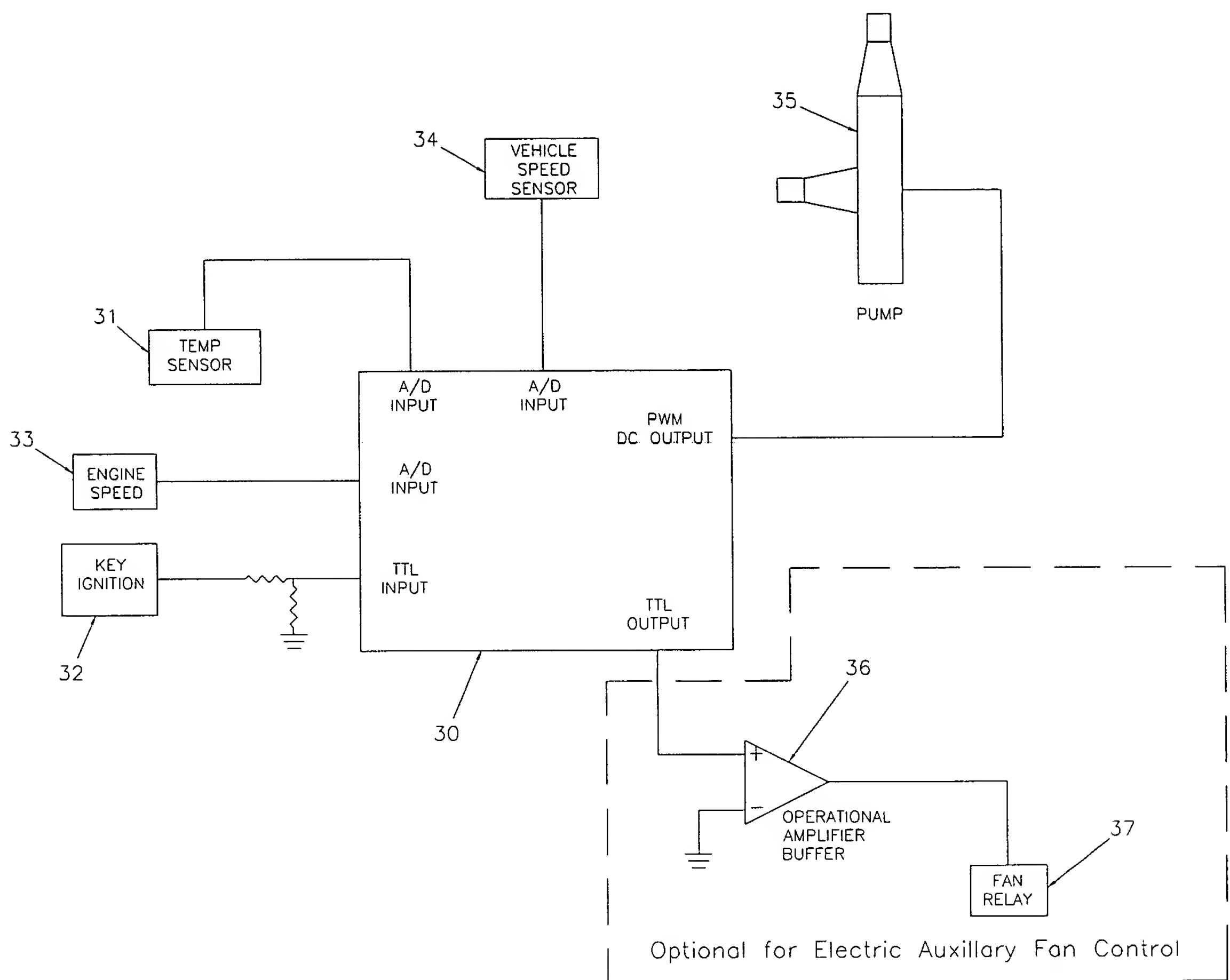


Figure 3

AWP & FAN CONTROLLER FLOWCHART

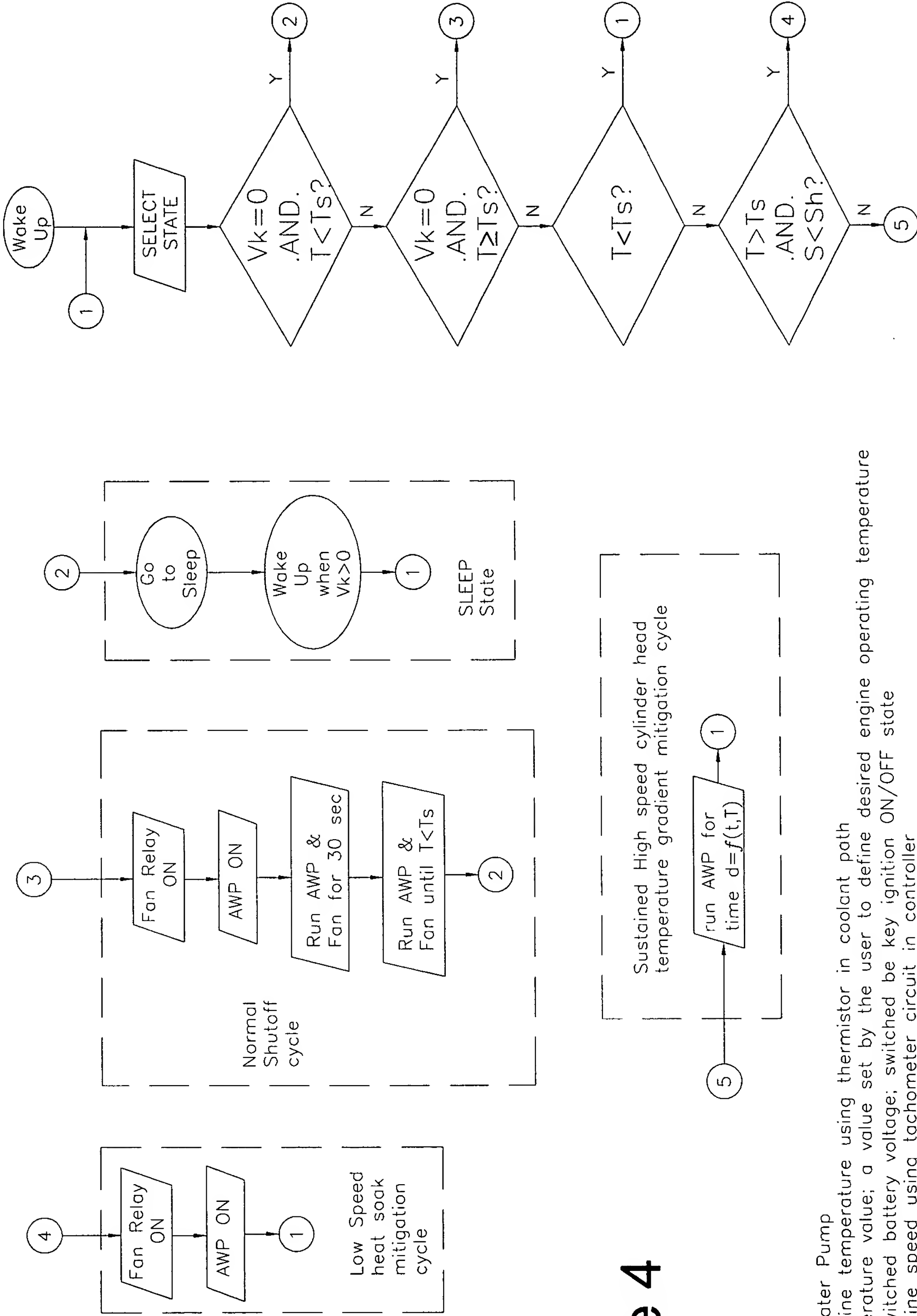


Figure 4

KEY:

AWP = Active Water Pump

T = sensed engine temperature using thermistor in coolant path

Ts = Set Temperature value; a value set by the user to define desired engine operating temperature

Vk = Ignition switched battery voltage; switched be key ignition ON/OFF state

S = sensed engine speed using tachometer circuit in controller

Sh = Lo/Hi engine speed transition point; set by user to define transition between Lo & Hi speed states in controller

t = Time

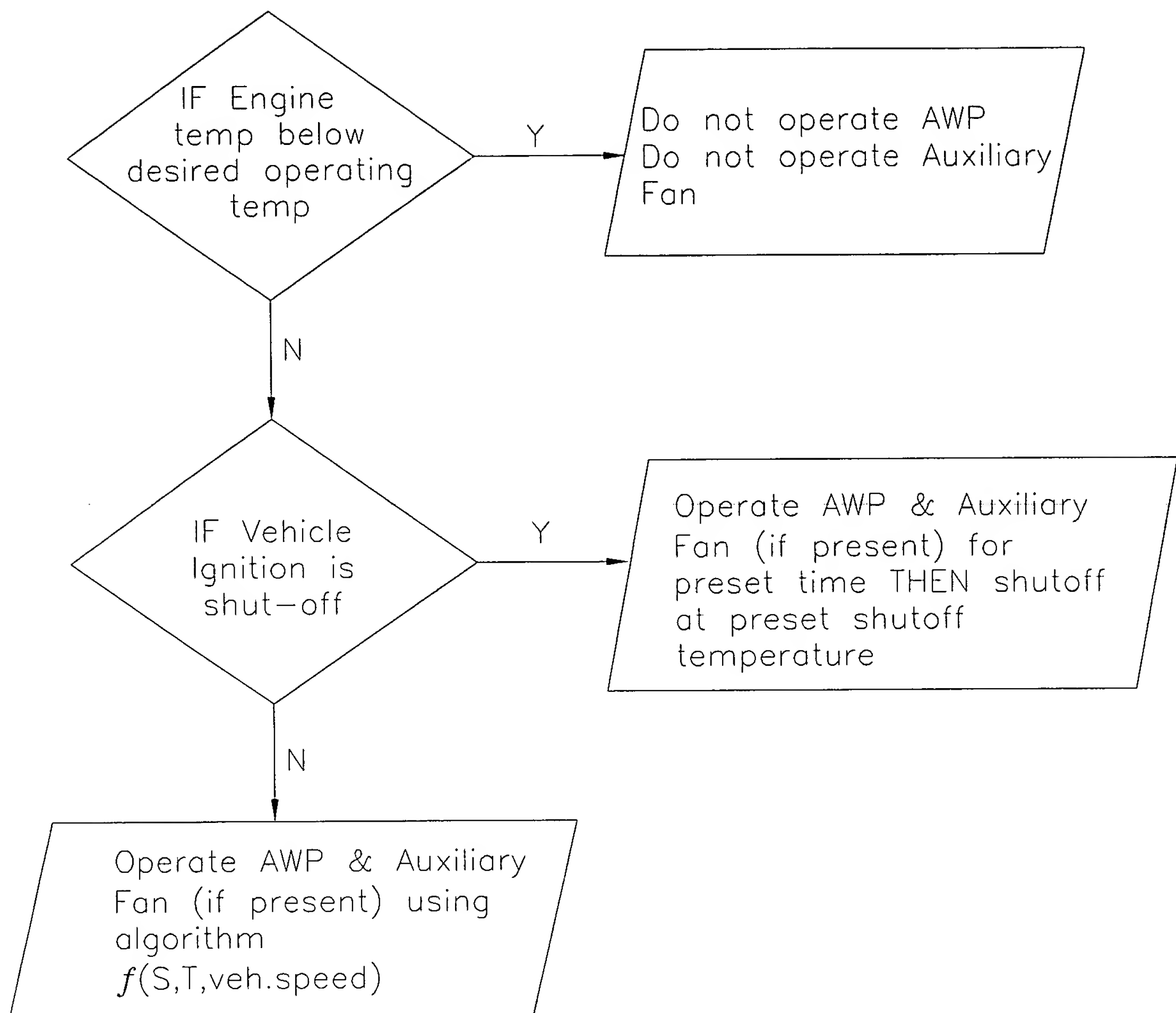


Figure 5

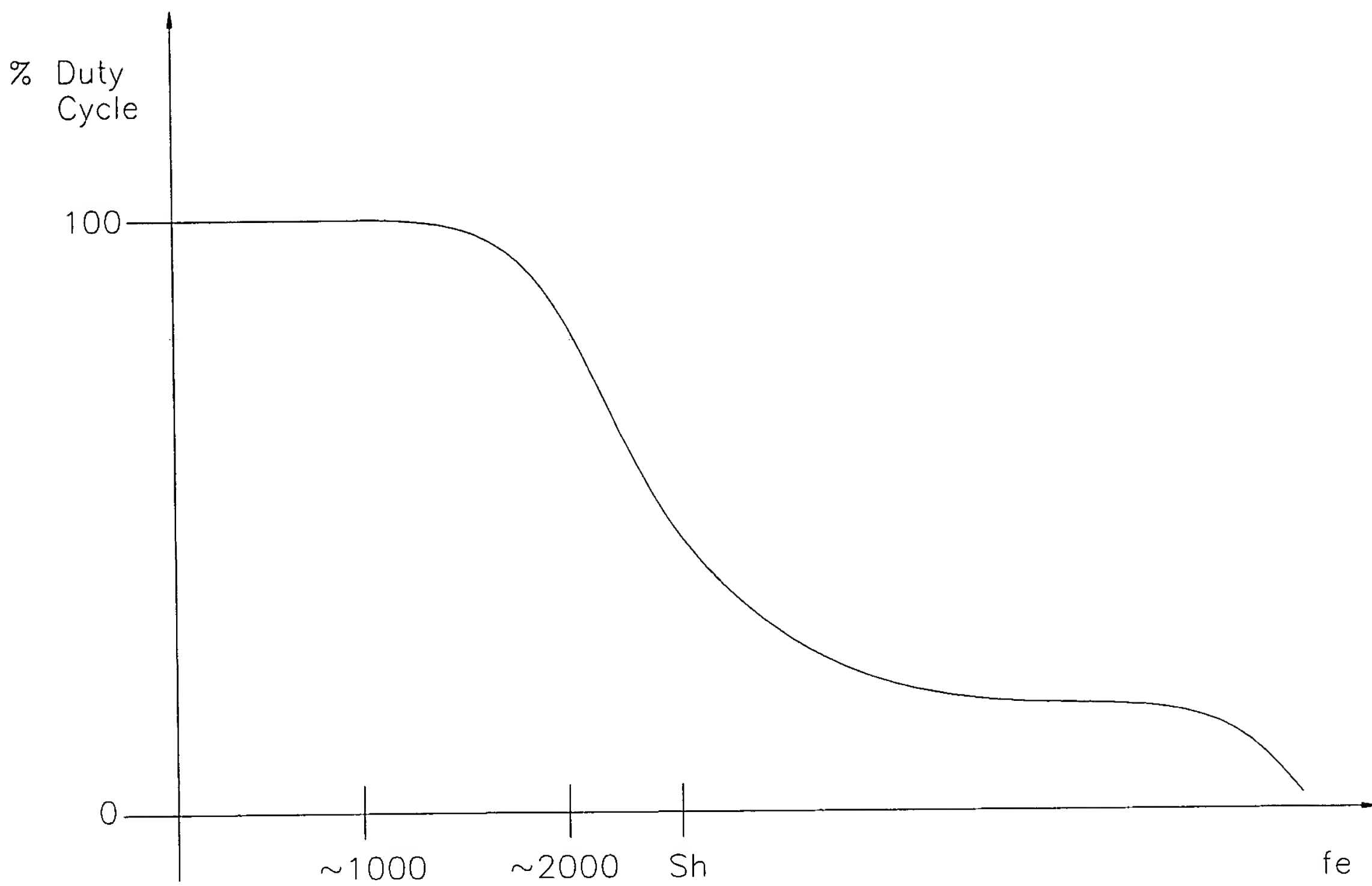


Figure 6

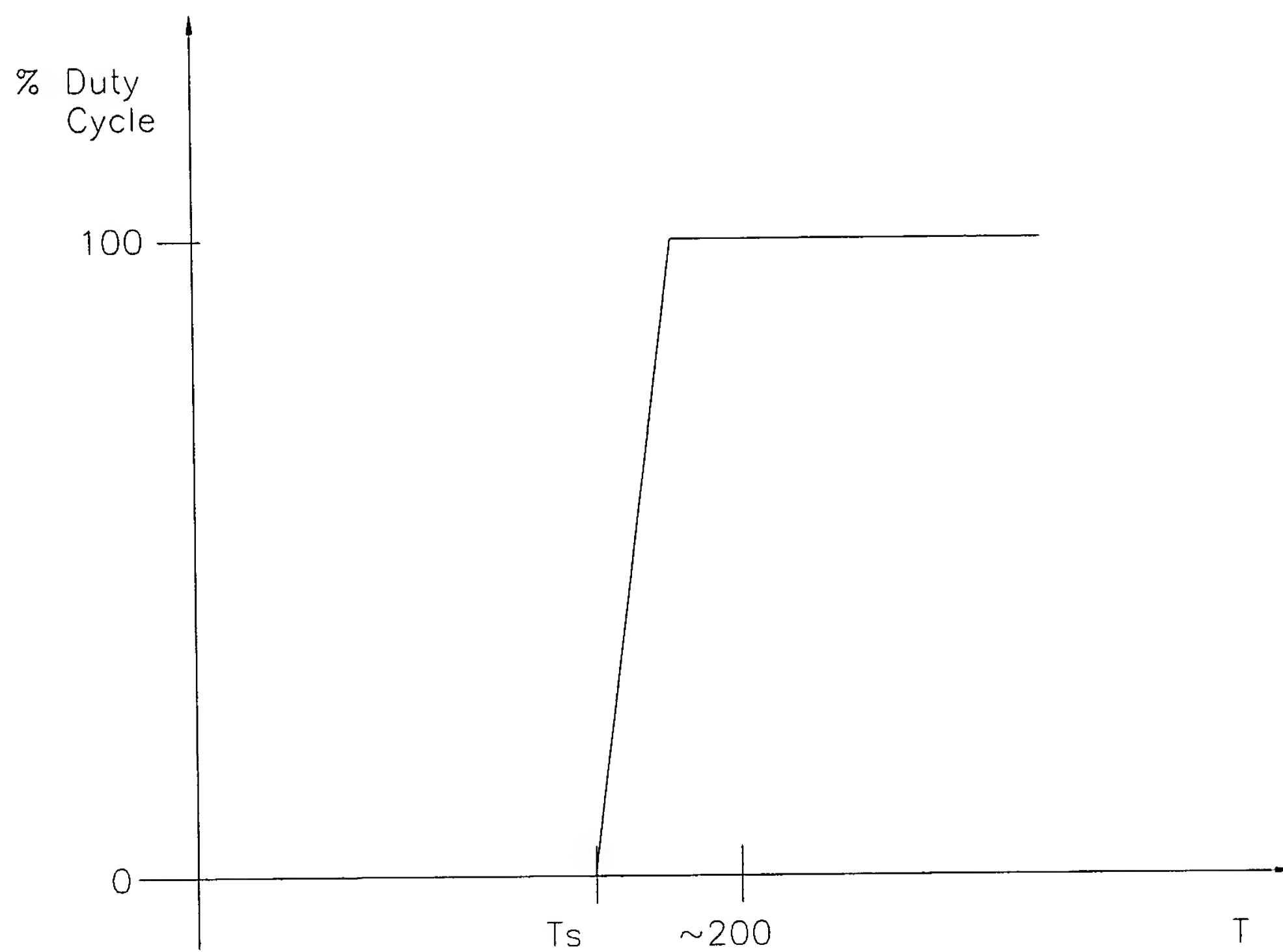


Figure 7